

From: [gerald](#)
To: [Stuble, Bill](#)
Cc: [Vandendoren, Alain](#); [Potter, Dolly](#); [Branson, Eric](#); [Slaybaugh, Kip](#); [Hodgson, Rich](#); [BRENT T BRENT T](#)
Subject: RE: Calciner Fuel Conversion--CEMS Monitoring Access Platform
Date: Wednesday, August 10, 2005 1:07:16 PM

Bill:

We would recommend the platform be at the 91'-0" level. On Grid 12 there is a beam line at that elevation. The existing platform as shown on the 520-G-110 at the 87' elevation is a cantilevered platform not as shown. We would recommend installing new columns at the Grid 11 bearing at 66'9" to support the platform at the 91' elevation. A ladder would provide access from the 87' platform to the 91' platform. To complete a design, how many CEM Ports will there be on the stack and how will they be oriented?

Regarding the ESP ports, do you have a specific location that we will need to access? Again, at that location how many ports and at what orientation?

Gerald McKenzie, P.E.
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>>> "Stuble, Bill" <Bill.Stuble@solvay.com> 08/10/05 12:33 PM >>>

Gerald:

I agree on your calculations estimating stack CEM ports 100' + above the plant floor:

$$7 \text{ stack diameters} \times 12' + 28' \text{ (distance top of fan outlet connection to floor)} = 112'$$

Fewer stack diameters from disturbance may be permissible. A compromise / more practical location would be at the 87' elevation, which is the coal bunker drag conveyor DC-8 deck level. The attached GA's show some opportunity for extension of existing decks.

That would be 5.25 diameters above the top of ID fan outlet duct (assuming the CEM ports are 4' above the 87' deck).

Gerald, what would be the soonest we could have this stack CEM access deck installed? Same question for the ESP outlet CEM access decks.

-- Thanks, Bill

-----Original Message-----

From: gerald [<mailto:gerald@thomasengr.com>]
Sent: Wednesday, August 10, 2005 11:21 AM
To: Stuble, Bill
Cc: Vandendoren, Alain; Hodgson, Rich; BRENT_T

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Subject: Calciner Fuel Conversion--CEMS Monitoring Access Platform

Bill,

Can you either confirm the criteria for establishing the elevation for the CEMS monitoring ports or provide us with an elevation that those ports will be installed?

Based upon the assumption that the monitors would have to be located in a straight section of the exhaust approximately 7 pipe diameters above the CA-1 & CA-2 individual exhaust connection, the CEMS monitors could potentially have to be located between 104' and 113' above the plant floor. The roof elevation from the plans is at 113'.

It had been suggested in the past to Thomas Engineering that the CEMS platform would be somewhere near the 67' elevation.

Please confirm. Platform designs would be substantially different between those two elevations.

Thanks

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